

# Comparisons of Job Characteristics

**Focus Occupation: Aircraft Mechanics and Service Technicians (49-3011)**

**Associated Occupation: Avionics Technicians (49-2091)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

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<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 59

**Focus Occupation: Aircraft Mechanics and Service Technicians (49-3011)**

**Associated Occupation: Avionics Technicians (49-2091)**

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Computers and Electronics	8.4	14.7	7.3	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	13.0	12.3	0	Current knowledge level may be sufficient
Mathematics	9.2	12.3	10.8	<	Expanded education and/or training may be required
Mechanical	6.8	9.6	22.8	>>	Current knowledge level is likely more than sufficient
Production and Processing	6.0	9.5	8.7	0	Current knowledge level may be sufficient
Telecommunications	3.9	6.3	5.0	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 92

**Focus Occupation: Aircraft Mechanics and Service Technicians (49-3011)**

**Associated Occupation: Avionics Technicians (49-2091)**

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Repairing	3.4	13.9	15.9	>	Skill level is likely sufficient
Troubleshooting	4.5	13.8	13.9	0	Current skill level may be sufficient
Equipment Maintenance	3.5	13.5	17.2	>>	Skill level is likely more than sufficient
Quality Control Analysis	5.9	11.8	12.8	0	Current skill level may be sufficient
Operation Monitoring	6.6	11.5	13.5	>	Skill level is likely sufficient
Equipment Selection	3.3	9.1	9.1	0	Current skill level may be sufficient
Installation	1.7	5.4	4.4	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 91			
Focus Occupation: Aircraft Mechanics and Service Technicians (49-3011) Associated Occupation: Avionics Technicians (49-2091)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Problem Sensitivity	11.1	13.0	14.4	>	Current ability level is likely sufficient
Information Ordering	9.9	11.8	12.8	0	Current ability level may be sufficient
Finger Dexterity	7.6	11.5	14.8	>>	Current ability level is likely more than sufficient
Visualization	7.5	11.0	10.3	0	Current ability level may be sufficient
Manual Dexterity	6.5	10.2	13.9	>>	Current ability level is likely more than sufficient
Control Precision	6.6	9.5	14.4	>>	Current ability level is likely more than sufficient
Visual Color Discrimination	6.4	8.5	10.7	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 80
Focus Occupation: Aircraft Mechanics and Service Technicians (49-3011) Associated Occupation: Avionics Technicians (49-2091)		
Work Activities	Exclusivity of Activity	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Lay out machining, welding or precision assembly projects	63	
Perform safety inspections in industrial, manufacturing or repair setting	32	
Read blueprints	10	
Read schematics	34	
Read technical drawings	7	
Repair or replace electrical wiring, circuits, fixtures, or equipment	49	
Test electrical/electronic wiring, equipment, systems or fixtures	54	
Understand service or repair manuals	40	
Understand technical operating, service or repair manuals	6	
Use aviation electronics	95	
Use electrical or electronic test devices or equipment	40	
Use hand or power tools	2	
Use knowledge of metric system	39	
Use precision measuring tools or equipment	17	
Use soldering equipment	44	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 93

**Focus Occupation: Aircraft Mechanics and Service Technicians (49-3011)**  
**Associated Occupation: Avionics Technicians (49-2091)**

Tools and Technologies	Exclusivity
Computers	1
Cutting and crimping and punching tools	3
Data management and query software	1
Electrical measuring and testing equipment	7
Fastener setting tools	12
Forming tools	2
Hearing protectors	12
Holding and clamping tools	3
Holding and positioning and guiding systems and devices	23
Industry specific software	1
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Measuring and layout tools	3
Metals and metallurgy and structural materials testing instruments	15
Power tools	2
Respiratory protection	6
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Viewing and observing instruments and accessories	4
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.